

**Claims Status:**

Please amend claim 1 as follows.

1. (Currently amended) A method of fabricating a first halo region and a second halo region for a first circuit device of a first conductivity type and having a gate structure with first and second sidewalls, comprising:  
providing a substrate including the first circuit device and a second circuit device, the first circuit device being substantially aligned with a first axis and the second circuit device being substantially aligned with a second axis that is substantially perpendicular to the first axis;  
forming a mask on a substrate with an opening that exposes the first circuit device and the second circuit device;  
forming the first halo region of a second conductivity type by implanting the substrate with impurities in a first direction toward the first sidewall of the gate structure;  
forming the second halo region of the second conductivity type by implanting the substrate with impurities in a second direction toward the second sidewall of the gate structure;  
and  
wherein the first and second halo regions are formed without implanting impurities in a direction substantially perpendicular to the first and second directions.
2. (Original) The method of claim 1, wherein the first conductivity type comprises p-type and the second conductivity type comprises n-type.
3. (Original) The method of claim 1, wherein the first conductivity type comprises n-type and the second conductivity type comprises p-type.
4. (Original) The method of claim 1, wherein the first direction is substantially perpendicular to the first sidewall.

5. (Original) The method of claim 1, wherein the first direction is substantially perpendicular to the first sidewall and the second direction is substantially perpendicular to the second sidewall.
6. (Original) The method of claim 1, wherein the implanting impurities in the first direction is performed at an angle of about 15 to 45° from vertical.
7. (Original) The method of claim 6, wherein the implanting impurities in the second direction is performed at an angle of about 15 to 45° from vertical.
8. (Original) A method of fabricating halo regions for a first group of transistors on a substrate substantially aligned with a first axis and a second group of transistors on the substrate substantially aligned with a second axis that is substantially perpendicular to the first axis, comprising:  
forming halo regions for the first group of transistors by implanting the substrate with impurities in a first direction substantially perpendicular to the first axis, and implanting the substrate with impurities in a second direction substantially opposite the first direction and substantially perpendicular to the first axis, and without implanting impurities in a direction substantially parallel to the first axis; and forming halo regions for the second group of transistors by implanting the substrate with impurities in a third direction substantially perpendicular to the second axis, and implanting the substrate with impurities in a fourth direction substantially opposite the third direction and substantially perpendicular to the second axis, and without implanting impurities in a direction substantially parallel to the second axis.
9. (Original) The method of claim 8, wherein the first and second groups of transistors comprise n-channel transistors.

10. (Original) The method of claim 8, wherein the first group of transistors have a first conductivity type and the second group of transistors comprises a second conductivity type.
11. (Original) The method of claim 10, comprising masking one of the first and second groups of transistors while implanting the other of the first and second groups of transistors.
12. (Original) The method of claim 8, wherein the implanting impurities in the first and second directions is performed at an angle of about 15 to 45° from vertical.
13. (Original) The method of claim 8, wherein the implanting impurities in the third and fourth directions is performed at an angle of about 15 to 45° from vertical.
14. (Cancelled)
15. (Cancelled)
16. (Previously presented) The method of claim 1, wherein the impurities of the first and second halo regions comprise boron, BF<sub>2</sub> or indium.
17. (Previously presented) The method of claim 1, wherein the impurities of the first and second regions comprise phosphorus, arsenic or antimony.
18. (Original) A method of manufacturing, comprising:  
forming first and second halo regions for each of a first group of n-channel transistors aligned along a first axis by implanting impurities beneath gate structures of each of the first group of n-channel transistors from first and second substantially opposite directions toward opposite sides of the gate structures of the first group of n-channel transistors;

forming third and fourth halo regions for each of a second group of n-channel transistors aligned along a second axis substantially perpendicular to the first axis by implanting impurities beneath gate structures of each of the second group of n-channel transistors from third and fourth substantially opposite directions toward opposite sides of the gate structures of the second group of n-channel transistors;

forming first and second halo regions for each of a first group of p-channel transistors aligned along the first axis by implanting impurities beneath gate structures of each of the first group of p-channel transistors from first and second substantially opposite directions toward opposite sides of the gate structures of the first group of p-channel transistors;

forming third and fourth halo regions for each of a second group of p-channel transistors aligned along the second axis by implanting impurities beneath gate structures of each of the second group of p-channel transistors from third and fourth substantially opposite directions toward opposite sides of the gate structures of the second group of p-channel transistors; and

wherein the first and second halo regions of the first group of n-channel transistors and the first group of p-channel transistors are formed without implanting impurities in a direction substantially perpendicular to the first and second directions, and the third and fourth halo regions of the second group of n-channel transistors and the second group of p-channel transistors are formed without implanting impurities in a direction substantially perpendicular to the third and fourth directions.

19. (Original) The method of claim 18, wherein the implanting of impurities in the first, second, third and fourth directions is performed at an angle of about 15 to 45° from vertical.
20. (Original) The method of claim 18, wherein the impurities of the comprise boron, BF<sub>2</sub> or indium.

Serial No.: 10/790,939

21. (Original) The method of claim 18, wherein the impurities of the first, second, third and fourth halo regions of the first and second groups of p-channel transistors comprise phosphorus, arsenic or antimony.